

ATUS Complex Sample Specification for SAS and Stata

by Robert B. Nielsen¹ and Martin C. Seay²

The Successive Difference Replicates (SDR) estimation method is recommended when working with the American Time Use Survey (ATUS) (U.S. Bureau of Labor Statistics, 2013). While STATA supports SDR estimation, SAS users must substitute the Jackknife Repeated Replication (JRR) estimation method.

SAS:

```
proc survey___ data=__your_datafile___ varmethod = jackknife;
    *your_secondary_command and your variable(s) or model statement;
    weight    _your_weight_;    * person/family/household weight variable;
    repweights FINLWGT001- FINLWGT160;    * replicate weights;
run;
```

Of course, change the `proc survey___` for other procedures. For example:

```
proc surveylogistic data=your_datafile varmethod = jackknife;
    model      DEPENDENT (event='1')= INDEPENDENT;
    weight    _your_weight_;    * person/family/household weight variable;
    repweights FINLWGT001- FINLWGT160;    * replicate weights;
run;
```

Stata: (using the estimation of a mean value as our example)

Replicate weight method using menus

Sampling weight variable is your full sample pweight.

Successive Difference Replicates (sdr) are FINLWGT001-FINLWGT160.

Within the procedure, specify "survey data estimation" in SE.

Replicate weight method using code

```
First svyset [pweight=_yourwgt], sdrweight(FINLWGT001- FINLWGT160) vce(sdr)
Then svy: mean _yourvariable_
```

For further information on the complex sampling design of the ATUS please refer to U.S. Bureau of Labor Statistics (2013).

Reference

U.S. Bureau of Labor Statistics. (2013). American Time Use Survey user's guide: Understanding ATUS 2003-2012. Available:
<http://www.bls.gov/tus/atususersguide.pdf>

¹ Associate Professor, Department of Housing and Consumer Economics, University of Georgia, 205 Consumer Research Center, Athens, GA 30602. Email: rnielsen@uga.edu

² Assistant Professor, School of Family Studies and Human Services, 318 Justin Hall, Kansas State University, Manhattan, KS. 66506. Email: mseay@ksu.edu

Suggested citation:

Nielsen, R. B. & Seay, M. C. (2014). *ATUS complex sample specification for SAS and Stata*. Technical note, Department of Housing and Consumer Economics, University of Georgia, Athens, GA.